

DEPARTMENT OF THE ARMY  
HEADQUARTERS, UNITED STATES ARMY MATERIEL COMMAND  
5001 EISENHOWER AVENUE, ALEXANDRIA, VA 22333-0001

AMC REGULATION  
No. 10-83

15 December 1997

Organization and Functions

MISSION AND MAJOR FUNCTIONS OF THE  
U.S. ARMY TANK-AUTOMOTIVE AND ARMAMENTS COMMAND

Local supplementation of this regulation is prohibited.

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1. **Purpose.** This regulation sets forth the mission and major functions of the U.S. Army Tank-automotive and Armaments Command (TACOM), a major subordinate command of the U.S. Army Materiel Command (AMC), and prescribes relationships with higher and collateral headquarters.

2. **Mission.** a. The mission of TACOM is to research, develop, field and support mobility, armament, munitions, and chemical systems and materiels through their total life cycle.

b. Exercise command and control for assigned installations and activities.

3. **Major functions.** The major functions of TACOM are to--

a. Plan and manage research, design, development, production engineering, follow-on engineering and product assurance and test activities in support of procurement and fielded systems for assigned materiel.

b. Plan and direct technology base for all assigned materiel to ensure that state-of-the-art technology and quality remain current.

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\*This regulation supersedes AMC-R 10-83, 5 May 1988.

c. Provide long range ground vehicle fleet planning to ensure that balanced, responsive fleets are developed, coordinated and maintained.

d. Serve as the link between the Army and commercial sector sources in cooperative research and development efforts to enhance the transfer of technology among the Army, industry, and academia.

e. Perform life-cycle engineering to include testing on product/process design and modifications to assure conformance with program requirements, performance, Manpower and Personnel Integration (MANPRINT), operations objectives, and Safety-Of-Use-Message Program (SOUM), munitions packing, logistics, maintenance, demilitarization, malfunction investigation, and fielding of interactive electronic technical manuals. Execute life-cycle responsibility for engineering modifications for assigned materiel for all TACOM elements, Business Centers and, where appropriate, the Industrial Operations Command (IOC).

f. Plan, direct, and execute producibility engineering and planning and production readiness reviews for assigned items/systems in development.

g. Maintain a Maintenance Operations and Procedures (MOP) Shop for all assigned materiel to provide an in-house capability to design, fabricate, and test systems, components, and kits in support of the TACOM community project/product managers and other Department of Defense (DOD) and federal agencies.

h. Coordinate the centralized management and execution of assigned systems for the following programs: Manufacturing Methods and Technology; Materiel Deterioration Prevention and Control; Nuclear, Biological, and Chemical (NBC) Systems and Subsystems; DOD Standardization, Test, Measurement, and Diagnostic Equipment (TMDE); Configuration Management; Materiel Release; Selected Acquisition Information Management System; New Equipment Training (NET), Materiel Readiness, and Army Warranty Program; Extended Service Program (ESP); Automatic Test Equipment (ATE), and Special Repair Activity (SRA).

i. Manage integrated supply and stock control consistent with national inventory control point (NICP). Direct performance of integrated supply management responsibilities to include commodity management, requirements computation, procurement, distribution management inclusive of requisition processing, accountable record maintenance, and stock record maintenance, acquisition/support, distribution and transportation management and overhaul/utilization/disposal.

j. Manage materiel maintenance engineering and management consistent with national maintenance point (NMP) responsibilities, logistics support and logistics support analysis, and publication of technical manuals.

k. Manage, direct and control Security Assistance (SA) cases/lines for assigned materiel and services. Receive and review foreign customer requests for cases (to procure materiel/services) or for data. Ensure all technical/logistics support is considered and/or offered to allow the customer to properly use and maintain his purchase. Intensively manage, plan, schedule, direct, coordinate, monitor and control case/lines to ensure all country requirements are met. Manage the Special Defense Acquisition Fund (SDAF) for assigned materiel. Participate in SA operations (both CONUS and OCONUS) to ensure the foreign customer's technical/logistics support requirements are met for assigned materiel and services.

l. Plan, program, and provide personnel to assist in the accomplishment of AMC's worldwide Logistics Assistance Program (LAP) for assigned materiel.

m. Plan, direct, and execute a safety program for assigned materiel, correct deficiencies prior to materiel release and provide safety support for fielded materiel.

n. Procure assigned systems/items using, whenever possible, commercially available off-the-shelf, Product Improvement Program (PIP), or new replacement items for compatibility and maximum benefit at an economical cost. Monitor contractor production of assigned systems/items to ensure production planning/management.

o. Maintain a cost and system analysis capability to include weapon systems analysis, technical evaluation, and cost analysis to ensure evaluation of procurement sources/equipment quality.

p. As the Army Procurement Showcase Command, buy spares wisely and efficiently. Improve cross-fertilization among the services in developing innovative techniques to improve procurement lead times.

q. Provide matrix support to Product/Project/Program Managers (PM) and Program Executive Officers (PEO), other MSC/services/government agencies.

r. Manage assigned items/systems development programs and projects, including life-cycle supportability and sustainability of those end items.

s. Manage and execute research, development, test and evaluation (RDTE), and provide engineering support for production, configuration management and fielding phases of the life cycle as required for all assigned materiel.

t. Plan, coordinate and operate the Armaments Technology Facility for the efficient design and development of the next generation of small and cannon caliber armaments and armament systems.

u. Plan, coordinate and operate the Ware Simulation Center for physical/operational simulation and modeling of large weapons, gun turrets and vehicle sections under controlled conditions.

v. Perform as the AMC lead Research, Development and Engineering Center (RDEC) and center of excellence for nonlethal technologies and the elimination of pollutants in the design, manufacture and use of ammunition.

w. Manage the Plant Advocacy Program for assigned Army ammunition plants and the Joint Service Small Arms Program. Provide comprehensive and rapid response to RDTE plant issues.

x. Perform life-cycle engineering functions for all armaments, including munitions packing, logistics, maintenance, demilitarization, malfunction investigation, and fielding of interactive electronic technical manuals. Execute life-cycle responsibility for engineering modification of armament items for all TACOM elements, Business Centers and the IOC.

y. Manage and accomplish product improvement efforts and Materiel Change Management (MCM) Program for all assigned materiel and in support of PEOs, PMS, and other services/MSCs.

z. Plan, direct and execute standardization, technical data management, scientific and technical information, data management, and application of specifications, standards, and programs for assigned materiel. Serve as the proponent for DOD standardization for designated federal supply classes and standardization areas.

aa. Provide life-cycle production and process engineering for manufacturing technology for assigned materiel. Plan and execute assigned Manufacturing Technology (MANTECH), Nondevelopmental Items (NDI), and Initial Production Facilities (IPF) programs. Provide process engineering support for production base support facility projects.

ab. Manage the U.S. Army Pollution Environmental Technology Program, the DOD National Defense Center for Environmental

Excellence (NDCEE), and the Center for Life-Cycle Environmental Technologies. Implement federal policy and regulations concerning pollution abatement and environmental control technology. Ensure that the requirements for environmental documentation are provided to the test and evaluation agency and are in concert with the National Environmental Policy Act and material acquisition regulations.

ac. Manage and perform the planning, scheduling and accomplishment of Integrated Logistics Support (ILS) in coordination with development managers and other agencies to assure that ILS requirements are integrated into assigned items/system. Maintain the status of ILS programs associated with systems undergoing development, product improvement, military design, NDI acquisition and commercial systems being procured.

ad. Manage technology enhancement/improvement to the total ammunition logistics system. Review, evaluate, and coordinate improvements from R&D concept through development, production and fielding.

ae. Plan, direct and execute the North Atlantic Treaty Organization (NATO) and American, British, Canadian and Australian (ABCA) Standardization programs for relevant mission systems.

af. Direct the operation of the North American Regional Test Center (NARTC) for the purpose of testing and certification of ammunition in compliance with NATO Standardization Agreements.

ag. Execute life-cycle reliability, quality, and system safety engineering and technical support programs to assure safe and reliable product performance for assigned materiel. Provide expertise in software verification/validation, stockpile assessment (current and future), failure analysis, corrosion prevention, and testing technology. Implement and engage in cooperative efforts with industry to continuously improve the quality, timeliness, and cost of products delivered to the government.

ah. Provide life-cycle production and environmental planning, support and attendant documentation to PEOs/PMs, AMC development centers, and other services and executive departments, through the centralized management and/or execution of programs involving Manufacturing Technology (MANTECH); Manufacturing, Science and Technology (MS&T); Technology Implementation and Infrastructure Improvement (TI3); production readiness; life cycle pollution prevention; and, environmental compliance for assigned materiel.

ai. Serve as the Army's agent for research, development and life cycle engineering for direct-view optics laser protection.

aj. Perform as the AMC lead laboratory and center of excellence for energetic materials technology. Manage and conduct life-cycle research, development, and engineering on explosives, pyrotechnics, propellants and related substances and their terminal effects. Provide focal point and authority for lethal mechanisms and the mechanics of munitions terminal effects, including shaped charge, EFP and fragmenting type warheads.

ak. Manage and execute the total Army Fire Control mission for all weapons systems applications (except missiles). Support external weapon system managers, PMs and other MSCs, in developing, procuring and sustaining their applications of fire control subsystems. TACOM will have primary fire control responsibility for those weapon systems employing both gun and missile armaments when the gun is designated primary weapon.

al. Manage and execute all phases of the AMC Explosive Ordnance Disposal (EOD) Program for all Army-developed and modified ordnance. Provide technical support and publications for foreign surface and subsurface ordnance for inclusion into the Joint Service Research and Development/EOD Program. Provide AMC Staff Officer for EOD. Provide materiel and combat developers safety and render safe procedures for Army materiel.

am. Operate for AMC, the system of type designators (XM and M) for developmental and adopted items of equipment.

an. Serve as the national maintenance point (NMP) and life-cycle software engineering center for software in Battlefield Automated Systems assigned to TACOM.

ao. Manage and execute the development of environmentally acceptable technology for the Army's demilitarization of conventional ammunition.

ap. Support the armament requirements of the TRADOC schools and centers (armor, infantry, artillery, aviation) and special forces.

aq. Provide overall intensive system oriented program management of assigned systems/materiel throughout the life cycle to include all aspects of development, engineering, procurement, production, engineering in support of production, product assurance, supply, maintenance, configuration control, deployment, readiness, materiel change management (MCM) and final disposition.

ar. Investigate, evaluate, develop, implement and proliferate advanced logistics and acquisition technologies to improve

existing systems and develop new initiatives and concepts. These include, but are not limited to electronic commerce (EC) and electronic data interchange (EDI), seamless logistics architecture; integrated, multiple, logistics and acquisition functionalities; multicapable maintainers; anticipatory and predictive logistics and acquisition systems; and logistics/acquisition data/information submission, exchange, and distribution.

as. Provide, on a national and international basis, centralized procurement of assigned weapon materiel systems, services, components and placement of facilities-type contracts.

at. Provide operational support for Special Operations Forces (SOF).

au. Manage the Materiel Readiness Program and major studies affecting readiness areas, and perform analysis of equipment readiness issues.

av. Plan, program, budget, manage and execute the Modification Work Order (MWO) Program, to include MOUs, MWO Fielding Plans, and MWO kit application.

aw. Manage the acquisition, logistics readiness and sustainment for assigned materiel. Serve as the National Maintenance Point (NMP) and Inventory Control Point (ICP) for fielded Chemical Defensive Equipment.

ax. Manage Sets, Kits, Outfits and Tools for the Army. Manage, execute and coordinate AMC's total common tool and equipment life-cycle engineering program. Coordinate and manage the Army Engineering Diving Equipment and Portable Landing Platforms.

ay. Manage Nuclear Regulatory Commission licenses and DA permits for radioactive commodities. Provide life-cycle radiation safety support for items/systems involving radioactive material. Perform research in the field of radiation safety, to include development of new methods/procedures for radioactive waste material disposal. Act as DOD licensee for specified ammunition items, including depleted uranium (DU) munitions throughout the life-cycle, from fielding through disposal.

az. Manage the Army Industrial Base Planning Program to sustain an adequate industrial base capable of producing essential materiel to support national defense objectives.

ba. Provide acquisition and logistics systems support and file maintenance liaison between DOD, DA, MSCs, and other activities/services/countries/commercial entities. Maintain current technical publications master data file and data base for all commodities except nuclear. Develop, coordinate and maintain the Provisioning Master Record (PMR), National Stock Number Master Data Record (NSNMDR), and Logistic Support Analysis/ Logistic Support Analysis Record (LSA/LSAR) for initial establishment of NSNs for end items, as well as maintenance of all spare/repair parts to include execution of supply support requests to DLA. Develop, coordinate and maintain all Commodity Command Standard Systems (CCSS) files/data bases and a systems required to support acquisition and logistics functions of TACOM.

bb. Manage and direct New Equipment Training (NET), preparation of Materiel Fielding/Transfer Plans, and Total Package Fielding programs for assigned materiel. Manage the LAR technical training courses. Conduct training on TACOM-managed equipment to Reserve, National Guard and Army.

bc. Provide personnel, equipment, technical and facility support and perform maintenance engineering evaluations for assigned items.

bd. Establish, staff, direct and operationally control a worldwide logistic assistance program for TACOM assigned materiel. Interface wholesale and retail logistics systems for exchange of logistics data/information to identify and resolve systemic problems with the user and support all TACOM mission items.

be. Serve as program manager to provide both Europe and Far East logistics assistance capability for TACOM-developed equipment.

bf. Plan and coordinate fielding of all assigned systems.

bg. Prepare and maintain implementing mobilization and emergency response plans. Plan and roster deployable teams to augment the Logistics Support Elements. Support logistics planning and sourcing of Army Service Component Command plans requirements. Establish and maintain operations capability. Exercise, evaluate and test plans and operations procedures.

bh. Plan, direct and execute the Small and Disadvantaged Business Utilization Program to ensure compliance with executive, legislative and regulatory requirements.



4. **Relationships.** a. The Commanding General, TACOM is under the direct command of the Commanding General, AMC.

b. Interfaces among TACOM's Business Centers located at three separate geographical sites: TACOM-Warren, Michigan; the U.S. Army Armament Research, Development and Engineering Center (TACOM-ARDEC) at Picatinny, New Jersey; and the Armament and Chemical Acquisition and Logistics Activity (TACOM-ACALA) at Rock Island, Illinois.

c. Interfaces among AMC's major subordinate commands (MSC), Program Executive Officers (PEO), program/project/product managers (PM), and other organizations, regarding the assignment/management of assigned materiel and equipment/ transition recommendations, will be as prescribed in Department of Army (DA)/AMC regulations, letters of instruction (LOI), letters of agreement (LOA), memorandums of understanding (MOU), charters, and other binding directives.

d. Technical and administrative support is provided to PEOs, PMs, major Army commands (MACOM), MSCs, etc.

e. Item/system users in the field provide feedback data and recommendations for analysis and possible equipment improvements.

f. TACOM participates in a technical information exchange with other DOD elements, academia, industry, and foreign sources.

g. TACOM consults and coordinates with other government agencies, industry, and academia to ensure the implementation of the Departments of Energy, Defense, and Transportation recommendations, and new energy related technology as applicable to current/future military vehicles.

5. **Assigned materiel.** a. Tactical, combat, assault vehicle weapon systems (Table 1).

b. Self-propelled artillery vehicles and mobility components of these vehicles (Table 2).

c. Military adaptation of commercial items (MACI).

d. Carriers (e.g., personnel, cargo, missile, reconnaissance vehicles).

e. Special-purpose vehicles.

f. Remote control target vehicle.

g. Military suspension components that are peculiar to the mobility function of the Army combat and tactical vehicles regardless of the federal supply classification (FSC) class.

h. Trailers, i.e., towed-type military specification vehicles with lunette couplers.

i. Semitrailers, i.e., towed-type vehicles with fifth wheel supporting/connection means.

j. Commercial vehicles (CV), Construction Equipment (CE) and Material Handling Equipment (MHE), and their peculiar secondary items and repair parts.

k. DOD integrated materiel management of all parts peculiar to combat tactical vehicles of Army design without qualification as to FSC.

l. Tactical and assault bridging and related equipment.

m. Fuels and lubricants (to include technologies, specifications and standards and filtration equipment).

n. Materials/container handling equipment.

o. Fuel handling and water treatment processes and equipment.

p. Non-PEO assigned Tactical Wheeled Vehicles.

q. Selected components for all Army and mobility materiel not included above, and not specifically excluded by materiel management assignment to other services.

r. Gun based, conventional weapons, including:

(1) Fire Support (Artillery) weapons and assigned missile and rocket components (fuze and warhead).

(2) Close Combat Light (Infantry) weapons (individual and crew-served), and assigned missile and rocket components (fuze and warhead) for fixed wing, rotary and remotely piloted aircraft.

(3) Gun type air defense weapons.

(4) Surface vehicle mounted weapons.

(5) Aircraft mounted weapons for fixed wing, rotary and remotely piloted aircraft.

- (6) Close Combat Heavy (tank) weapons.
- (7) Small unguided rockets.
- (8) Automatic cannon caliber and medium caliber weapons.
- (9) Precision munitions.
- (10) Mines, countermines and demolition equipment.
- (11) Mortar systems.

s. Targetry systems for live fire ranges to include Remoted Electronic Targeting Systems (RETS) and Intermediate New Generation Army Targeting System (INGATS).

t. Armament systems, subsystems, components and peculiar support equipment (PSE) including vehicle mounted armament systems (tanks, fighting vehicles, assault vehicles, amphibious vehicles, armored personnel carriers, and reconnaissance vehicles), self-propelled and towed artillery systems, gun air defense systems, guided projectile and precision munitions systems, mortar systems, mines and special purpose vehicles.

u. Fire control systems, excluding that integral to missile systems and missile air defense fire coordination systems, for Army weapon platforms.

v. Rocket and missile warhead sections (excluding guidance and control).

w. Demolition munitions, firing devices, mines, bombs and grenades; pyrotechnic systems and munitions (including illuminating, flame, incendiary, etc.); simulator, practice and training munitions; chaff and special purpose payload munitions.

x. Riot control munitions systems.

y. Assigned radiological materiel.

z. Fuzes, safing and arming, and other control devices.

aa. Explosives, propellants, pyrotechnic compositions and their ingredients.

ab. Launch and dispenser systems and devices (excluding free rocket and guided and ballistic missile launching and ground support equipment) for the foregoing assigned materiel.

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ac. Clips, links, magazine fillers and linker-delinkers for conventional ammunition.

ad. Related components, basic issue items, packaging, handling, check-out and ancillary equipment for assigned materiel.

ae. Training equipment and devices for assigned materiel.

af. Special tools for TMDE which are a part of, or used with assigned materiel (including special inspection and test equipment and table of organization and equipment items).

ag. Tools and maintenance equipment specified for use with equipment managed by two or more AMC major subordinate commands. Includes chemical agent alarms, detectors, detector kits, collective protection equipment, masks, filters, smoke generators, and decontamination equipment.

ah. Army peculiar EOD tool sets and equipment.

ai. Ammunition peculiar equipment.

aj. Cartridges, Cartridge Actuated Devices (CAD), and Propellant Actuated Devices (PAD) (FSC 1377 materiel) for Army aircraft systems.

ak. Nonlethal weapons, devices, munitions as standalones and as payloads for existing and future fielded weapons platforms.

Table 1. Weapon System Assignments

<u>Weapon System Type</u>	<u>Required Operational Capability (ROC)</u>	<u>Primary Management Responsibility (1)</u>	<u>Technical and Materiel Support and Responsibility</u>
Tactical Surface Vehicles	Firepower Lethality	TACOM	TACOM-ACALA for production and fielded support and TACOM-ARDEC for RDTE and LRIP of applicable weapons and mounts, fire control, loaders, and ammo transfer mechanisms. TACOM-ARDEC for development and engineering of ammunition. TACOM-Warren for automotive/chassis.
Combat and Assault	Firepower Lethality	TACOM	(Same as for Tactical Surface.)
Aircraft	Firepower Lethality	U.S. Army Aviation & Missile Command (AMCOM)	TACOM-ACALA for production and field support and TACOM-ARDEC for RDTE and LRIP for gun based weapons, ammunition, gun based fire control, loaders, ammo transfer mechanisms, gun mounts, aerial resupply and rearm options.
Self-propelled towed artillery	Firepower Deep Fires Precision Strikes	TACOM	(Same as for Tactical Surface)
Soldier Individual and Crew Served	Lethality Precision Strikes	TACOM	TACOM-ARDEC for life cycle engineering for gun mechanism, fire control and sights, ammunition, ancillary equipment, and soldier enhancement items.
Precision Munitions	Firepower Lethality	TACOM	TACOM-ARDEC for life cycle engineering
Mines and Demolition	Lethality	TACOM	TACOM-ARDEC for life cycle engineering
Mortars	Firepower Lethality Precision Strikes	TACOM	TACOM-ARDEC for life cycle engineering

Table 1. Weapon System Assignments (Con't)

<u>Weapons Systems Type</u>	<u>Required Operational Capability (ROC)</u>	<u>Primary Management Responsibility</u>	<u>Technical and Materiel Support and Responsibility</u>
Innovative Weapon Concepts (i.e., Low Cost Competent Munitions & Non-lethal technologies)	Firepower Lethality Peace Keeping Operations	TACOM	TACOM-ARDEC for life cycle engineering
Personnel Carriers	Mobility Firepower Lethality	TACOM	(Same as for Tactical Surface Vehicles)
Special Purpose Vehicles	Firepower Lethality	TACOM	(Same as for Tactical Surface Vehicles)
All	Weapon System & Component Integration	TACOM	TACOM-ARDEC for all assigned systems including interactive simulation, stereolithography, x-ray diffraction, wind tunnel, and instrumentation and measurements, and prototype fabrication and integration facilities.
All	Software	TACOM	TACOM-ARDEC for life cycle software engineering in assigned battlefield automated systems.

(1) Designated command or assigned project manager

Table 2. Component Assignment for Surface Vehicles

<u>TACOM-Warren</u>	<u>TACOM-ACALA</u> (Logistics/Sustainment)	<u>TACOM-ARDEC</u> (Development/Engineering)
1. Hull/body	1. Turret/Cupola Assemblies	1. Same as ACALA
2. Engines and vehicular turbines	2. Cannon Assemblies	2. Same as ACALA
3. Transmissions	3. Gun Mounts and recoil mechanisms	3. Same as ACALA
4. Suspensions	4. Gun/turret elevation and traverse mechanisms	4. Same as ACALA
5. Tracks	5. Mortars	5. Same as ACALA
6. Armor	6. Weapon and turret stabilization	6. Same as ACALA

7. Wheels	7. Fire Control (except missiles)	7. Same as ACALA
8. Auxiliary power units	8. Gun armament system integration	8. Same as ACALA
9. Vehicle integration	9. Fire control and weapons system software	9. Same as ACALA
10. Vetronics and vetronics software	10. Individual and crew served weapons	10. Same as ACALA
	11. Chemical agent alarms	11. Gun ammunition
	12. Collective protection equipment	12. Automatic ammo loaders and transfer mechanisms
	13. Smoke generators	
	14. Smoke grenade launchers	
	15. Reactive Armor	

The proponent of this regulation is the U.S. Army Materiel Command. Users are invited to send comments and suggested improvement on DA Form 2028 (Recommended Changes to Publications and Blank Forms) to Commander, AMC, ATTN: AMCRM-O, 5001 Eisenhower Avenue, Alexandria, VA 22333-001.

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